### PATENT COOPERATION TREATY

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 1577 PCT	FOR FURTHER ACTION	See item 4 below  Priority date (day/month/year)  08 January 2004 (08.01.2004)	
International application No. PCT/DE2005/000004	International filing date (day/month/year) 05 January 2005 (05.01.2005)		
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant ZF FRIEDRICHSHAFEN AG			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	This report contains indications relating to the following items:			
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of capplicability	opinion with regard to novelty, inventive step and industrial	
	Box No. IV	Lack of unity of inven	tion	
: !	Box No. V		nder Article 35(2) with regard to novelty, inventive step or industrial and explanations supporting such statement	
	Box No. VI	Certain documents cite	ed	
	Box No. VII	Certain defects in the i	nternational application	
	Box No. VIII	Certain observations o	n the international application	
4.			designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but under Article 23(2), before the expiration of 30 months from the priority	
			Date of issuance of this report 18 October 2006 (18.10.2006)	
	The International Bure	au of WIPO	Authorized officer	

Ellen Moyse

e-mail: pt05@wipo.int

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

34, chemin des Colombettes 1211 Geneva 20, Switzerland

### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) See Form PCT/ISA/210 Date of mailing (day/month/year) (sheet 2) Applicant's or agent's file reference FOR FURTHER ACTION 1577 PCT See paragraph 2 below Priority date (day/month/year) International filing date (day/month/year) International application No. PCT/DE2005/000004 05.01.2005 08.01.2004 International Patent Classification (IPC) or both national classification and IPC F16C11/06 Applicant ZF FRIEDRICHSHAFEN AG This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/EP Authorized officer Telephone No. Facsimile No.

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/DE2005/000004

Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	itional comments:
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/DE2005/00004

Box			ile 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;  porting such statement	
1.	Statement			
	Novelty (N)	Claims	2-5, 12, 13	YES
		Claims	1,6,7,11	NO
	Inventive step (IS)	Claims	2-5,12,13	YES
			8-10	_ NO
	Industrial applicability (IA)	Claims	1-13	YES
		Claims		NO

2. Citations and explanations:

Reference is made to the following documents:

**D1: US 6 357 956 B1** (ZEBOLSKY MICHAEL L ET AL) 19 March 2002 (2002-03-19)

#### CLAIM 1

- 2.1 The present application fails to comply with the requirements of PCT Article 33(1) since the subject matter of claim 1 is not novel within the meaning of PCT Article 33(2).
- 2.2 Document D1 (see column 4, line 13 to column 5,
   line 21 and figures 3-5) discloses (the references
   in parentheses refer to this document):
   A ball and socket joint 26 that is inserted in the
   area of the chassis 10 of vehicles with a ball and
   socket joint housing 36 having a joint opening,
   with a ball pivot 24 arranged in the ball joint
   housing 36 extending through the joint opening,
   onto which a shaft 25 is formed, with a support
   ring 50 arranged on the shaft 25 of the ball pivot
   24, and a sealing element 54, 55 that is arranged
   between the support ring 50 and a connection
   component 22 enclosing the shaft 25 of the ball

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

pivot 24, wherein the sealing element is designed as an elastic and/or plastically deformable profile body (O-ring 54 or 55), whose effective cross-section not subject to force is delimited by a continuous, curved contour (circular shape) that is subject to deformation when assembled (necessary to achieve a sealing effect), as a result of which at least one section of the contour lies on the adjacent, sealing areas of 22, 23, 25, 50, 50a.

#### CLAIMS 2 to 13

- 3.1 Claims 6, 7 and 9 to 11 do not contain any features, which in combination with the features of any claims to which they refer, meet the requirements of the PCT with regard to novelty and inventive step. Reference is made to the following prior art:
  - Claim 6 concerns an obvious method for achieving a seal also found in D1;
  - Claim 7, D1, figures 5A and 5B, arrangement on support ring 50;
  - Claim 8: suggested in D1, column 5, lines 12-21; Claims 9, 10 relate to an obvious step during assembly;
  - Claim 11: D1, figures 5A and 5B.
- 3.2 The combination of features contained in dependent claims 2 to 5, 12 and 13 are neither known from the existing prior art, nor are they suggested by it.

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/DE2005/000004

The following defects in the form or contents of the international application have been noted:
The following detects in the following of the international appreciation have seen noted.
4. The features of the preamble of claim 1 are not
provided with reference signs in parentheses (PCT Rule
6.2b).